

ABSTRACT OF THE DISCLOSURE

Highly purified single-wall carbon nanotubes (SWNTs) and production thereof. The highly purified single-wall carbon nanotubes may be produced according to one embodiment of the invention by generating a crude SWNT material having a carbon nanotube fraction and a non-nanotube carbon fraction, refluxing the crude SWNT material in an acid solution to redistribute the non-nanotube carbon fraction as a uniform carbon coating on the carbon nanotube fraction, and oxidizing the refluxed SWNT material to remove the uniform carbon coating formed thereon. Preferably, metal is also removed during reflux.

10076195.021202